

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) A ~~network system~~ for locating a wireless tag within a layer having a plurality of layer units, said ~~network-layer~~ comprising a plurality of independent wireless nodes, each node being included in a ~~layer or~~ respective layer unit for ~~installation inside a building~~ and configured to be wirelessly connectable to at least one other node, such that when said ~~layer or~~ layer units are installed in a layer, said plurality of nodes have a determinable spaced arrangement, and provide overlapping wireless ~~coverage for locating~~ feedback to said tag by reference to said spaced arrangement,

wherein the feedback from said plurality of nodes is used to determine a location of the tag.

2. (Currently amended) ~~A network~~ The system according to claim 1, wherein said layer comprises a floor covering.

3. (Currently amended) ~~A network~~ The system according to claim 1, wherein said layer comprises a carpet underlay.

4. (Currently amended) ~~A network~~ The system according to claim 1, wherein said layer units include tiles for covering a floor.

5. (Currently amended) ~~A network~~ The system according to claim 1, wherein said layer units include tiles for covering a ceiling.

6. (Currently amended) ~~A network~~ The system according to claim 1, wherein said spaced arrangement comprises a regular pattern of nodes.

7. (Currently amended) ~~A network~~ The system according to claim 1, wherein each wireless node includes means for receiving a wireless signal and means for transmitting a wireless signal.

8. (Currently amended) ~~A network~~ The system according to claim 1, wherein each wireless node includes means for determining a range to a ~~neighbouring~~ neighboring wireless mode.

9. (Currently amended) ~~A network~~ The system according to claim 8, wherein said means for determining a range comprises means for determining a time of arrival of a received signal.

10. (Currently amended) ~~A network~~ The system according to claim 8, wherein said means for determining a range comprises means for determining a value of signal strength of a received signal.

11-12. (Canceled)

13. (Currently amended) ~~A network~~ The system according to claim ~~11~~ 1 further comprising means for generating power for ~~a said~~ wireless ~~node~~ nodes.

14. (Currently amended) ~~A network or a network element~~ The system according to claim 13, wherein said means for generating power comprises a piezoelectric crystal.

15. (Currently amended) ~~A network~~ The system according to claim ~~11 or a network element~~ according to claim 12 1, further comprising means for receiving power for ~~a said~~ wireless ~~node~~ nodes

from an external source.

16 (Canceled)

17. (Currently amended) A method of locating a wireless tag within a layer having a plurality of layer units using a network comprising a plurality of independent wireless nodes, each node being included in a ~~layer or~~ respective layer unit ~~installed inside a building~~, each node being and configured to be wirelessly connectable to at least one other node, the method comprising the acts of:

determining a spaced arrangement of said plurality of wireless nodes; ~~and~~

~~determining the location of~~ providing overlapping wireless feedback to said wireless tag from said plurality of wireless nodes with reference to said spaced arrangement; ~~and~~

determining a location of the tag using the feedback from said plurality of nodes.

18. (Currently amended) A The method according to claim 17, wherein said act of determining said spaced arrangement of said

wireless nodes comprises acts of:

transmitting ~~a first-at least one~~ message from a first node
said ~~first-at least one~~ message identifying said first node;

noting a time of arrival of said ~~first-at least one~~ message at
a second node and transmitting ~~a second-at least one~~ message from
said second node, said ~~second-at least one~~ message from said second
node identifying said first and second nodes, the time of arrival
of said ~~first-at least one~~ message from said first node and a time
of transmission of said ~~second-at least one~~ message from said
second node.

19. (Currently amended) A The method according to claim 18,
~~further comprising: transmitting a wherein the at least one~~ message
from said first node includes information identifying the location
of said first node within said spaced arrangement.

20. (Currently amended) A The method of ~~operating a wireless~~
~~node included in a layer or respective layer unit installed inside~~
~~a building and configured to be wirelessly connectable to at least~~
~~one other node, the method comprising: according to claim 17,~~
further comprising acts of:

co-operating with said at least one other node so as to
determine location of said wireless node within a spaced
arrangement of wireless nodes; and

co-operating with a wireless tag so as to determine location
of said wireless tag with reference to said spaced arrangement of
wireless nodes.

21. (Currently amended) A computer ~~program~~readable medium
comprising a program of instructions which, when executed by data
processing apparatus causes said data processing apparatus to
perform the method according to claim 20.

22. (New) The network or a network element according to claim
15, wherein said means for receiving power comprises inductive
means.